Conversion - Converting Predict Data From Previous Versions

To use Predict Version 4.2 to maintain data created with previous Predict versions, the data **must** be converted to Version 4.2 format.

The conversion functions are used to convert dictionary data created with Predict Version **4.1**.
These functions are described in this section.

> **Note:**
> You can also use the Coordinator to transfer data from a 4.1 to a 4.2 environment. However, this procedure takes longer and offers no advantages.
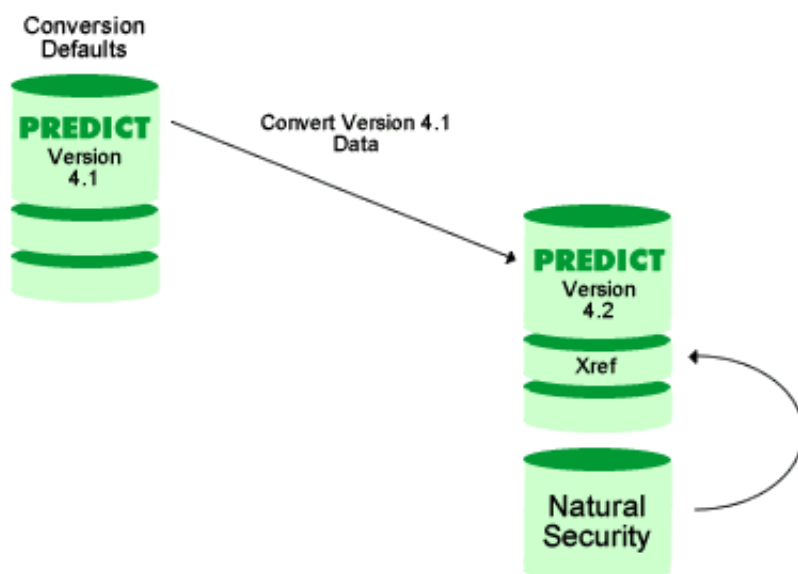
This section covers the following topics:

- General Information
- Calling Conversion Functions
- Conversion Defaults
- Version 4.1 Data
- Add Natural Security XRef Data
- Convert XRef Data
- Converting Dictionary Data in Batch Mode

General Information

Overview of Conversion Functions

This diagram shows you the scope of the Conversion Utility and the order in which the individual functions must be performed.
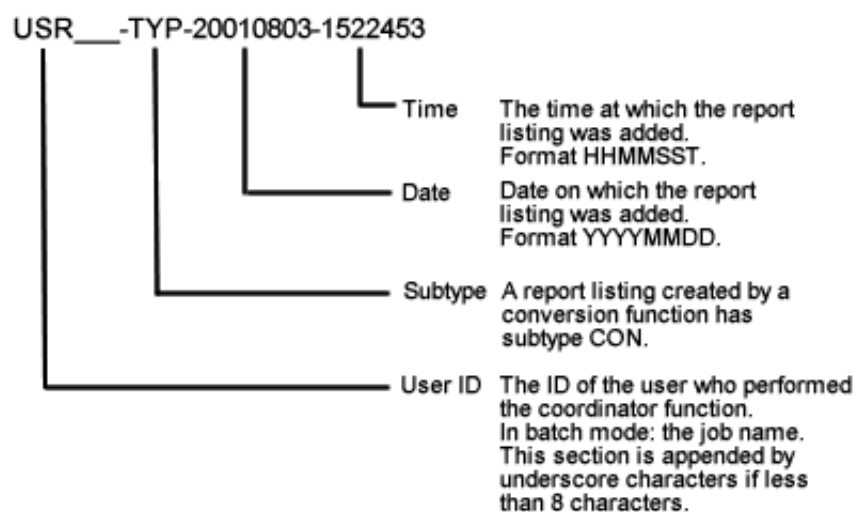
Logging Conversion Functions

With some conversion functions, an object of type report listing is created in your new Predict file. This report listing contains the following:

- an overview of how the function ran
- all error messages that occurred during conversion.

The ID of this object is composed as follows:

```
USR___-TYP-20010803-1522453
```

	Description
Time	The time at which the report listing was added. Format HHMMSST.
Date	Date on which the report listing was added. Format YYYYMMDD.
Subtype	A report listing created by a conversion function has subtype CON.
User ID	The ID of the user who performed the coordinator function. In batch mode: the job name. This section is appended by underscore characters if less than 8 characters.

Calling Conversion Functions

The Conversion Utility Menu is called with the command MENU at the NEXT prompt in the Natural Library SYSDICCO.

```
   13:01:23                ***** P R E D I C T  4.2.2  *****              2002-07-31
                            - Conversion Utility -


                        Function

                        C  Version 4.1 data

                        A  Add NSC XRef data
                        D  Conversion defaults
                        N  Convert XRef data
                        ?  Help




   Function ..


   FNAT .. (180,102)     FDIC .. (188,99)     Data version ... 4.1



   Command ===> -      -     --         -      -    Flip  Print -      -
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
         -      -           -      -    Flip  Print -      -      -      -      -
```

This screen contains all conversion functions and provides the following additional information:

- Adabas DBID and FNR of both the Predict system file (FDIC) and the Natural system file (FNAT)
- the format of data in the Predict dictionary.

Conversion Defaults

If you defined user defined metadata (user defined entities (UDEs), retrieval models and associations) in an earlier version of Predict and the metadata is now reserved in this version of Predict, you can use the function Conversion Defaults to specify how the existing metadata is to be renamed in the new version.

If you try to execute the function Version 4.1 data and a UDE name, UDE code, retrieval model or association is contained in the data to be converted, an error message will be given.

The following names and codes are reserved in Version 4.2.

Reserved Metadata for Conversion Defaults

Reserved Object Type	
Names	**Codes**
TRIGGER	TR
VISTA-DA	
VISTA-FI	

Reserved Retrieval Model	
Model Name	**Object Type**
AP	SY

Reserved Association		
Object Type	Active Code	Passive Code
(FI->TR)	TR	FI
(PR->FI)	IN	IP
(PR->FI)	RE	RS
(SY->SY)	CS	CS
(SY->PR)	CP	CP
(SY->VE)	CV	CV
(SY->FI)	CF	CF
(SY->SY)	LI	LI
(PR->PR)	MS	MS

Calling the Function

The function Conversion Defaults is called with function code D in the Conversion Utility Menu.

This function can only be executed online.

Example

In version 4.1 you defined a UDE with object type name Trigger and Code TI. In version 4.2, Trigger is the name of a predefined object type and is not permitted as an UDE.
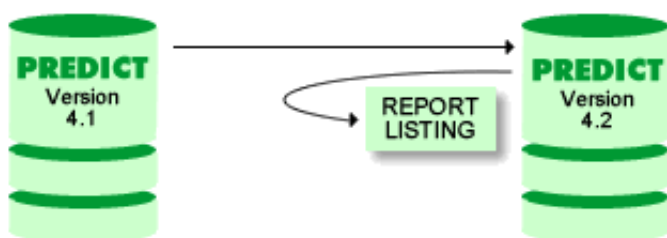
If you call the function Conversion defaults, the following screen appears:

```
   13:41:46              *****  P R E D I C T  4.2.2  *****              2002-07-31
                         - Conversion Defaults -
                                                            Added 2002-07-31 at 13:03
                                                              by GER
     Object type code          Object type name              Retrieval model
                                  TRIGGER ........
```

The function lists all UDEs which are in conflict with the new version. Because code TI is not reserved, this does not appear in the list and does not need to be changed. You do, however, have to change the object type name Trigger before you can convert your data from version 4.1. Enter under Object type name a new name (which is not reserved) for your UDE and press ENTER.

Version 4.1 Data

With the function Version 4.1 data, all data from your 4.1 environment are transferred to your new 4.2 environment.

Calling the Function

The function Version 4.1 data is called with function code C in the Conversion Utility Menu. It can be executed both online and in batch mode (see Converting Version 4.1 Data in Batch Mode).

The function Version 4.1 data can only be executed once. It is logged by an object of type report listing. See Logging Conversion Functions.
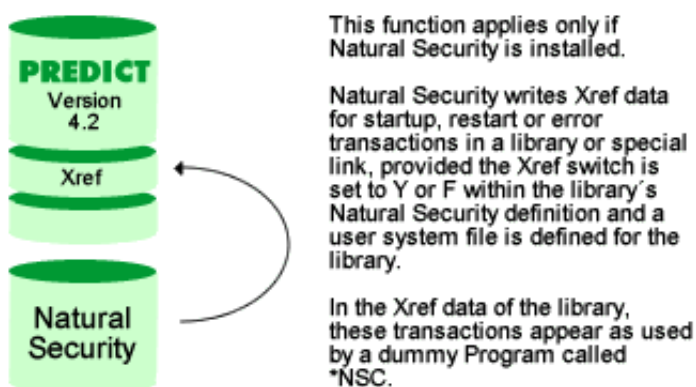
If a conversion function should be interrupted for any reason, it can be restarted at any time. Information on the file version and the objects already converted is written to the Report Listing mentioned above.

The dictionary data cannot be modified until the entire file has been converted to the new version.

> **Note:**
> The Coordinator FDIC file must be empty during the conversion because data in the Coordinator file are not converted. For details see the Predict Coordinator documentation.

Add Natural Security XRef Data

This function applies only if Natural Security is installed.

Natural Security writes Xref data for startup, restart or error transactions in a library or special link, provided the Xref switch is set to Y or F within the library's Natural Security definition and a user system file is defined for the library.

In the Xref data of the library, these transactions appear as used by a dummy Program called *NSC.

The function creates the XRef data for the first time. When both products have been installed, this XRef data will be maintained automatically whenever the Natural Security definition of a library or special link is changed.

The libraries for which XRef data have been written are listed.

If the function is repeated later, the Natural Security XRef data will always be set to a state corresponding to the current Natural Security definitions of startup, restart or error transactions.

Calling the Function

This function should be executed **once** in one of these cases:

- after the installation of Predict 4.2 if Natural Security is already installed,
- after the installation of Natural Security if Predict 4.2 is already installed.

Call the function with code A in the Conversion Utility Menu. The function can also be executed in batch mode. See Adding Natural Security XRef Data in Batch Mode.

Convert XRef Data

XRef data format is converted automatically using the function Version 4.1 data. If for some reason there are XRef data in old format layout on your FDIC file, use this function to convert this data to current format layout.

Calling the Function

You can use this function any time.

Call the function with code N in the Conversion Utility Menu. The function can also be executed in batch mode. See Converting XRef Data in Batch Mode.

Converting Dictionary Data in Batch Mode

Converting Version 4.1 Data in Batch Mode

```
LOGON SYSDICCO
MENU
CONVERT VERSION42
FIN
```

Adding Natural Security XRef Data in Batch Mode

```
LOGON SYSDICCO
MENU
ADD XREF
FIN
```

Converting XRef Data in Batch Mode

```
LOGON SYSDICCO
MENU
CONVERT XREF
FIN
```